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(54) **Method of initiating regeneration of a particulate filter for a direct-injection diesel engine with a common rail injection system**

(57) A method of initiating regeneration of a particulate filter (37) for a diesel engine (1) having a common rail injection system (6) permitting, at each engine cycle and in each cylinder (2) of the engine (1), a fuel injection strategy performing one or more of the following injections: a main injection (MAIN1); a first pre-injection (PILOT) preceding the main injection (MAIN1) and performed at the compression stroke; a second pre-injection (PRE) preceding the main injection (MAIN1) and following the first pre-injection (PILOT); a first post-injection (MAIN2, AFTER) following the main injection (MAIN1); and a second post-injection (POST) following the first post-injection (MAIN2, AFTER) and performed at the exhaust stroke; the second pre-injection (PRE)

and the first post-injection (MAIN2, AFTER) being performed close enough to the main injection (MAIN1) to participate, together with the main injection, in the actual fuel combustion phase. The method of initiating regeneration of the particulate filter (37) provides for implementing, at each engine cycle and in each cylinder (2) of the engine (1), a fuel injection strategy wherein one or more of the first and second pre-injection (PILOT, PRE), the main injection (MAIN1), and the first and second post-injection (MAIN2, AFTER, POST) are performed, and wherein the timing of one or more of the injections performed is varied with respect to the timing of the injections in particulate filter non-regenerating conditions.

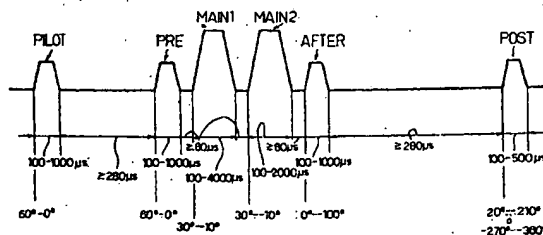


Fig.2

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EUROPEAN SEARCH REPORT

Application Number
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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 11 September 2003	Examiner Lapeyronnie, P
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**ANNEX TO THE EUROPEAN SEARCH REPORT
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